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TITLE: Optical recording/reproducing apparatus for optical disk - has time signal generator from which time signal for actuating movable unit and focus controller is generated based on detected conveyance state of beam on recording surface

INVENTOR: EDAHIRO, Y; MORIYA, M ; WATANABE, K ; YAMADA, S ; YAMAMOTO, T

PATENT-ASSIGNEE: MATSUSHITA ELECTRIC IND CO LTD (MATU), MATSUSHITA DENKI SANGYO KK (MATU)

PRIORITY-DATA: 1996JP-0081245 (April 3, 1996), 1995JP-0191680 (July 27, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1379400 A	November 13, 2002		000	G11B007/09
JP 09326123 A	December 16, 1997		048	G11B007/085
KR 97007880 A	February 21, 1997		000	G11B007/08
US 6011762 A	January 4, 2000		000	G11B007/00
KR 237914 B1	January 15, 2000		000	G11B007/08
CN 1151581 A	June 11, 1997		000	G11B007/13
US 6298019 B1	October 2, 2001		000	G11B007/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1379400A	July 26, 1996	1996CN-0113227	Div ex
CN 1379400A	July 26, 1996	2001CN-0119458	
JP 09326123A	July 24, 1996	1996JP-0194202	
KR 97007880A	July 27, 1996	1996KR-0030811	
US 6011762A	July 29, 1996	1996US-0688294	
KR 237914B1	July 27, 1996	1996KR-0030811	
CN 1151581A	July 26, 1996	1996CN-0113227	
US 6298019B1	July 29, 1996	1996US-0688294	Div ex
US 6298019B1	October 29, 1999	1999US-0430040	
US 6298019B1		US 6011762	Div ex

INT-CL (IPC): G11 B 7/00; G11 B 7/08; G11 B 7/085; G11 B 7/09; G11 B 7/13; G11 B 7/135; G11 B 21/02

ABSTRACTED-PUB-NO: JP 09326123A

## BASIC-ABSTRACT:

The apparatus has a conveyance lens (105) by which the light beam from a laser source (108) is irradiated on a disk (10) with two information recording surfaces. A converging point (107) on the recording surface is moved vertically to the information recording surface of the disk by a movable unit. The reflected beam from the disk is received by an optical detector (113) based on which the conveyance state of the light beam on the information recording surface is detected. Based on the

convergence state detection result, the timing signal is generated which drives the movable unit and a focus controller (101).

The convergence state of the beam is moved into the predetermined state on the recording surface, by the focus controller. When the acceleration signal is generated so that the convergence beam is turn to the next recording surface on the disk. Thus the moving speed of the movable unit is adjusted to focus the convergence point on the disk at the predetermined state.

ADVANTAGE - Enables stable switching operation of beam from first recording surface to second recording surface.

ABSTRACTED-PUB-NO: US 6011762A  
EQUIVALENT-ABSTRACTS:

The apparatus has a conveyance lens (105) by which the light beam from a laser source (108) is irradiated on a disk (10) with two information recording surfaces. A converging point (107) on the recording surface is moved vertically to the information recording surface of the disk by a movable unit. The reflected beam from the disk is received by a optical detector (113) based on which the conveyance state of the light beam on the information recording surface is detected. Based on the convergence state detection result, the timing signal is generated which drives the movable unit and a focus controller (101).

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ADVANTAGE - Enables stable switching operation of beam from first recording surface to second recording surface.

US 6298019B

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The convergence state of the beam is moved into the predetermined state on the recording surface, by the focus controller. When the acceleration signal is generated so that the convergence beam is turn to the next recording surface on the disk. Thus the moving speed of the movable unit is adjusted to focus the convergence point on the disk at the predetermined state.

ADVANTAGE - Enables stable switching operation of beam from first recording surface to second recording surface.

CHOSEN-DRAWING: Dwg.1/29

DERWENT-CLASS: T03 W04  
EPI-CODES: T03-B02A; T03-N01; W04-C03; W04-C10A;